

Mol Percent Report

Sample ID: 01402018 (initiated 1/15/99 7:03am) BASELINE CORRECTED

Turntable Position: 6 C
 Data Start : 3.00 min
 Data Duration : 16.00 min
 Peak Ht Thrshhold : 3000 uAU

Sampling Interval: 1.0 sec
 Samples In Run : 72
 Operator ID :
 Int. Std. Amt : 250 pmol

Calibration File : 14JANCAL
 Reference Time : 0.00 min
 Reference Offset 1: -0.02 min
 Reference Offset 2: 0.00 min

(initiated 1/15/99 9:44am)
 (No iSTD Peak Specified)

Integration Interval: 0.0 to 16.0 min

PEAK ID	RET. TIME min	PMOL BY HEIGHT	PMOL correc. INT STD	MOL %
ASX	2.30	562.99	0.00	29.02
GLX	2.70	1377.05	0.00	70.98

TOTAL PMOLS RECOVERED 1940.04

Minimum Peak Threshold: 3000 uAU (53 peaks below threshold)
 (8 peaks found)
 (2 peaks matched)

Figure 1B.

Amino acid analysis of the polypeptide

Inventor: William W. Zuo, et al Title: "Anticancer Polypeptide-
 Metal Complexes and Compositions, Methods of Making, and
 Methods of Using Same"

Agent: Mary A. Gilbreth, Ph.D. Reg No. 45,775

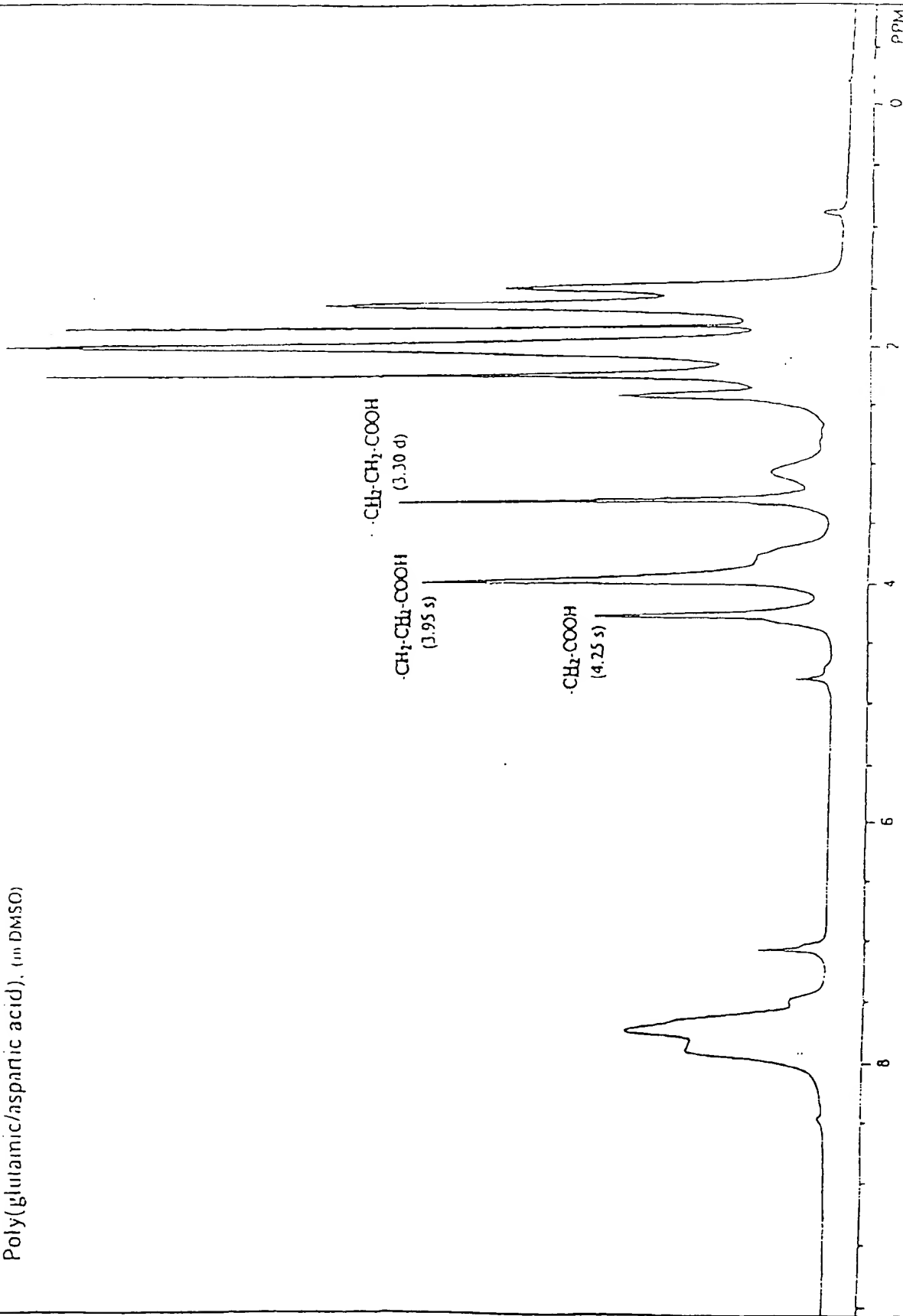
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T04230-03T0460

10/28/00 08:04:50

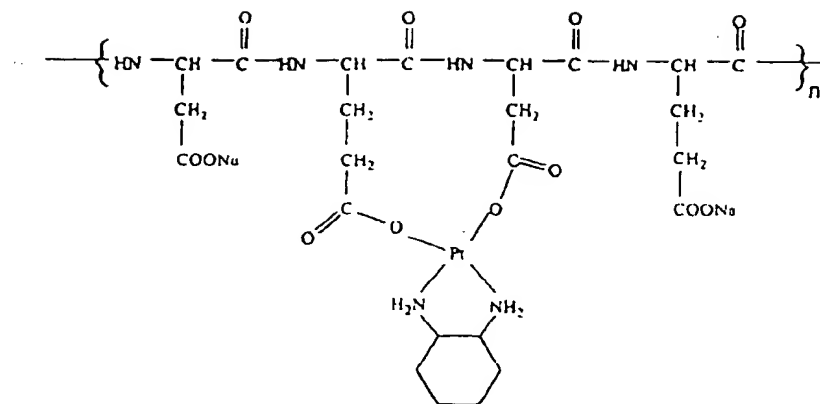
Poly(glutamic/aspartic acid), (in DMSO)



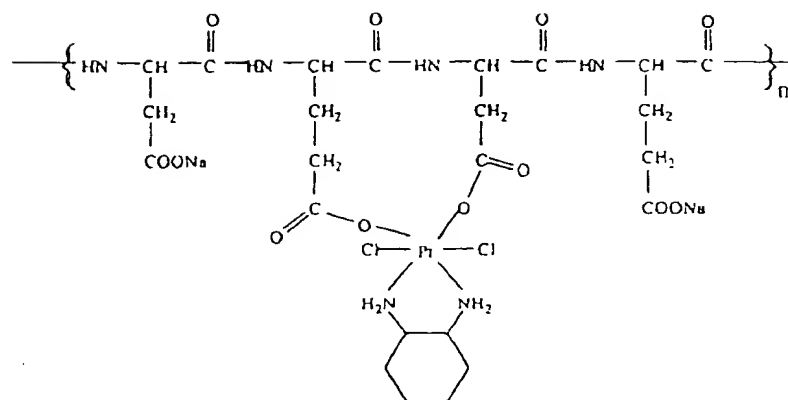
600 MHz, DMSO-d6
F1: 600.140

Figure 40: 1H NMR of poly(Glu/Asp)

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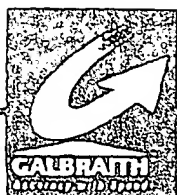
Pt(II) Complex



Pt(IV) Complex

Figure 2.

Structures of platinum(II) and platinum(IV)-poly(dipeptide) complexes



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LABORATORY REPORT

SAMPLE ID	LAB ID	ANALYSIS	RESULT(S)
DACH	I-5746	Platinum	44.60 %
PPAP	I-5747	Platinum	16.11 %
PDDP	I-5748	Platinum	17.64 %

Figure 3

Elemental analysis of platinum-poly(dipeptide) complexes for Pt(II)(PDDP), Pt(IV)(PPAP) and cis-1,2-DACH-Pt SO₄(DACH)

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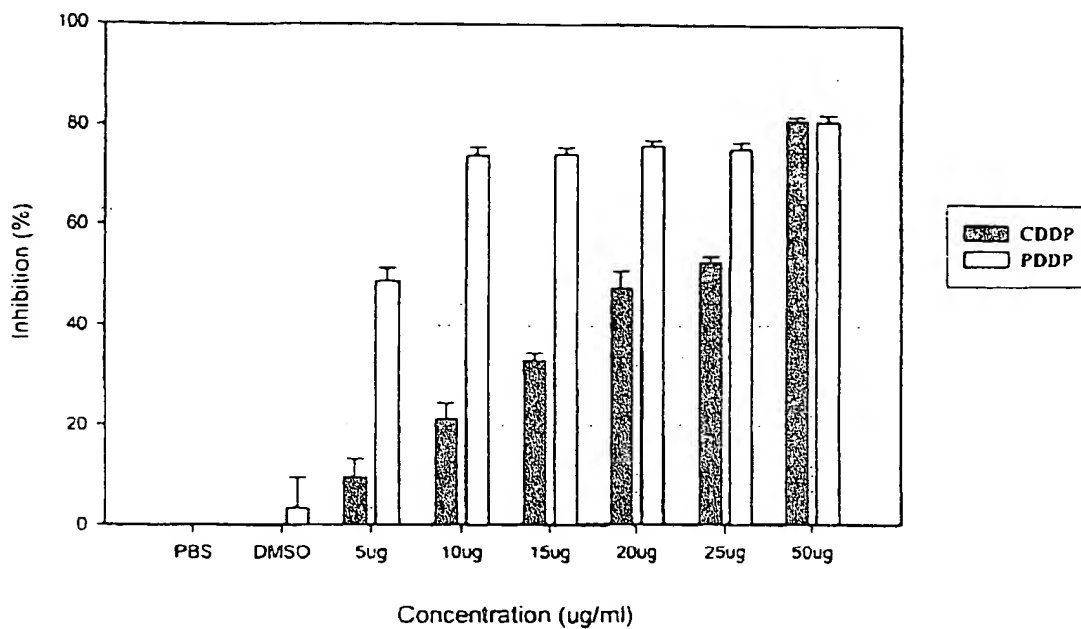
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Effect of PDDP & CDDP on Inhibition of Human Sarcoma Cells (HT1080) at 48 Hours



Effect of PDDP & CDDP on Inhibition of Human Sarcoma Cells (HT1080) at 72 Hours

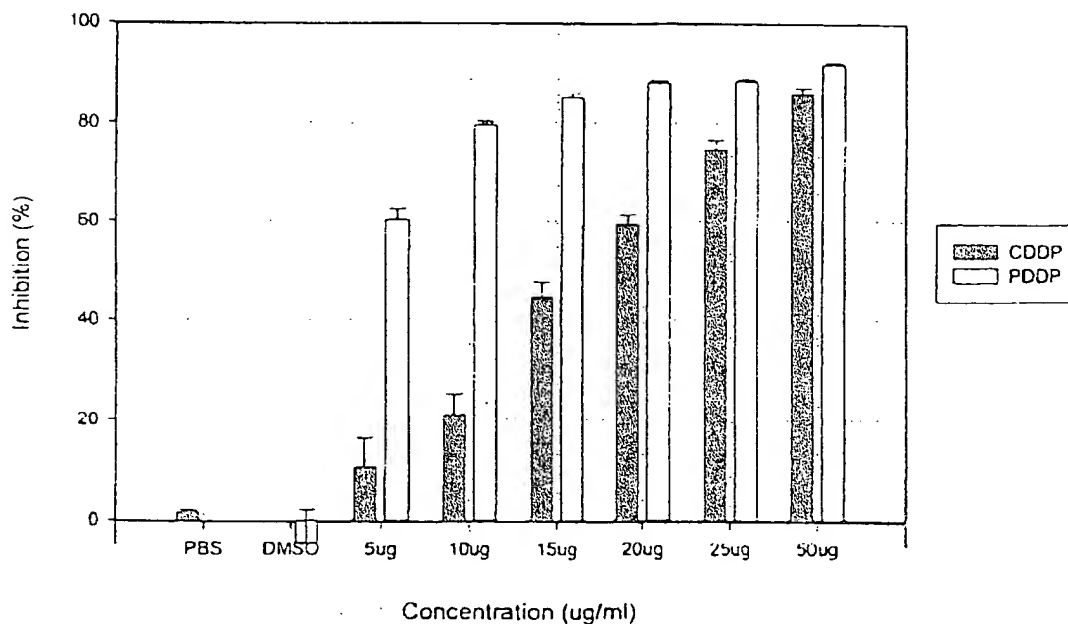


Figure 4A

In vitro cell culture assay of cisplatin(CDDP) and poly(glutamate/aspartate) acid-1,2-DACH-Pt(II) complex(PDDP) in human sarcoma

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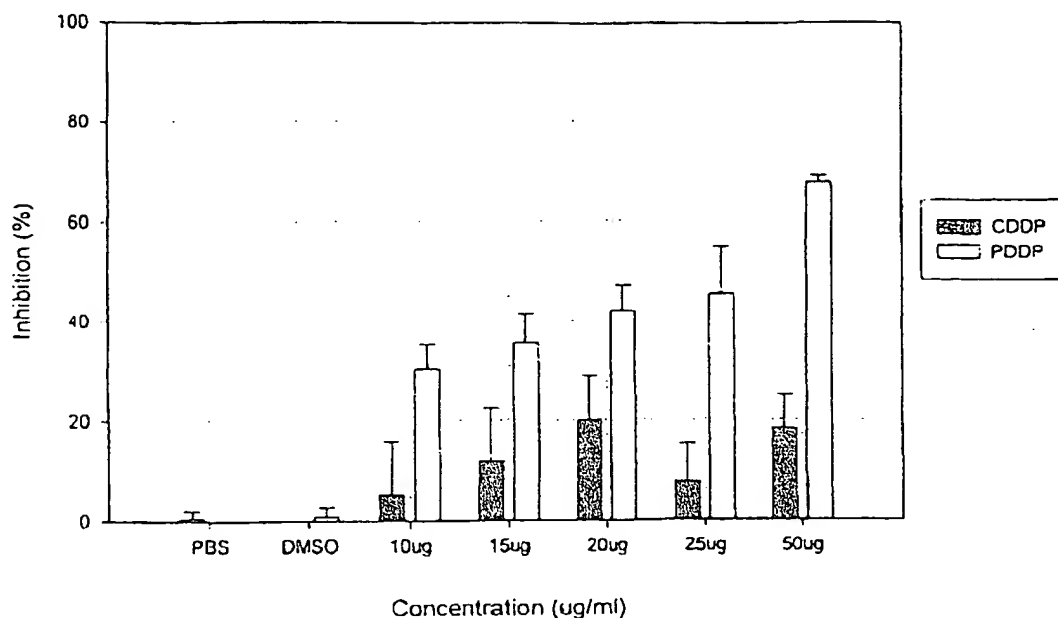
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Effect of PDDP & CDDP on Inhibition of Human Prostate Cancer Cells (A10) at 48 Hours



Effect of PDDP & CDDP on Inhibition of Human Prostate Cancer Cells (A10) at 96 Hours

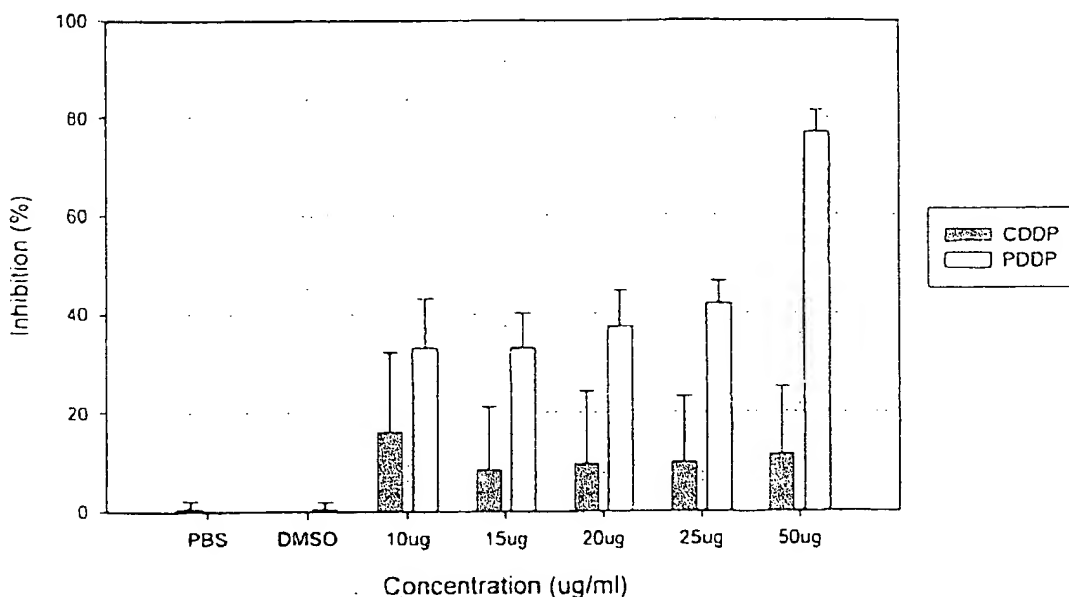


Figure 4-B

In vitro cell culture assay of cisplatin(CDDP) and poly(glutamate/aspartate) acid-1,2-DACH-Pt(II) complex(PDDP) in human prostate cancer

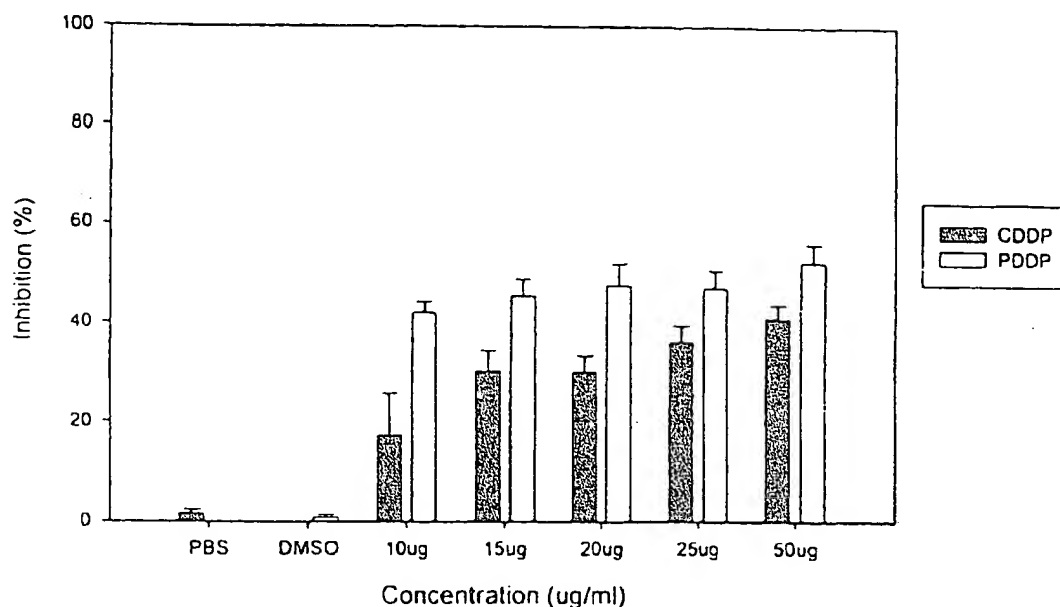
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Effect of PDDP & CDDP on Inhibition of Human Prostate Cancer Cells (PC3) at 48 Hours



Effect of PDDP & CDDP on Inhibition of Human Prostate Cancer Cells (PC3) at 96 Hours

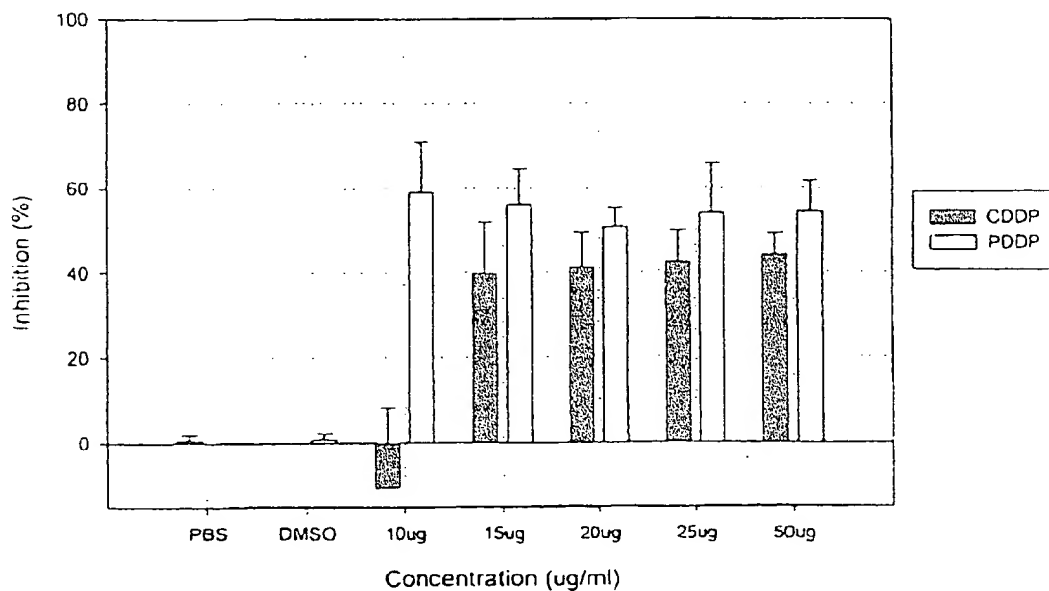


Figure 5C

In vitro cell culture assay of cisplatin(CDDP) and poly(glutamate/aspartate) acid-1,2-DACH-Pt(II) complex(PDDP) in human prostate cancer

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704280-03T04660

Anti-tumor Activity of PDDP Against Rats Bearing Breast Tumors (13762)

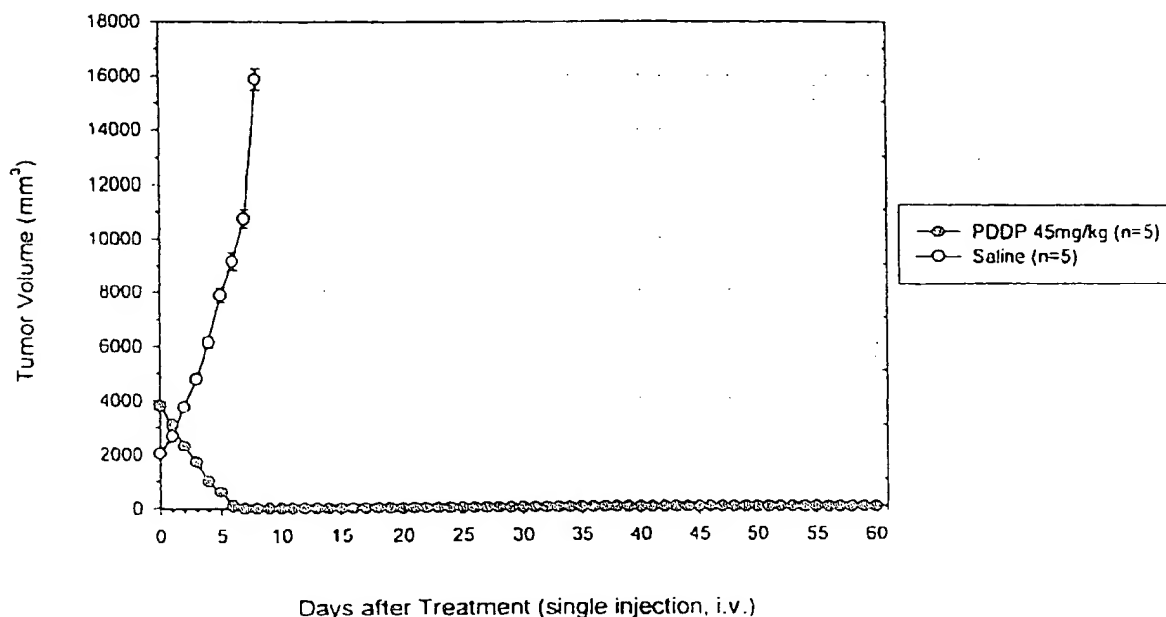


Figure 5

In vivo anti-tumor activity of an inventive poly(glutamate/aspartate) acid-1,2-DACH-Pt(II) complex (PDDP) compared to control against rats bearing breast tumors.

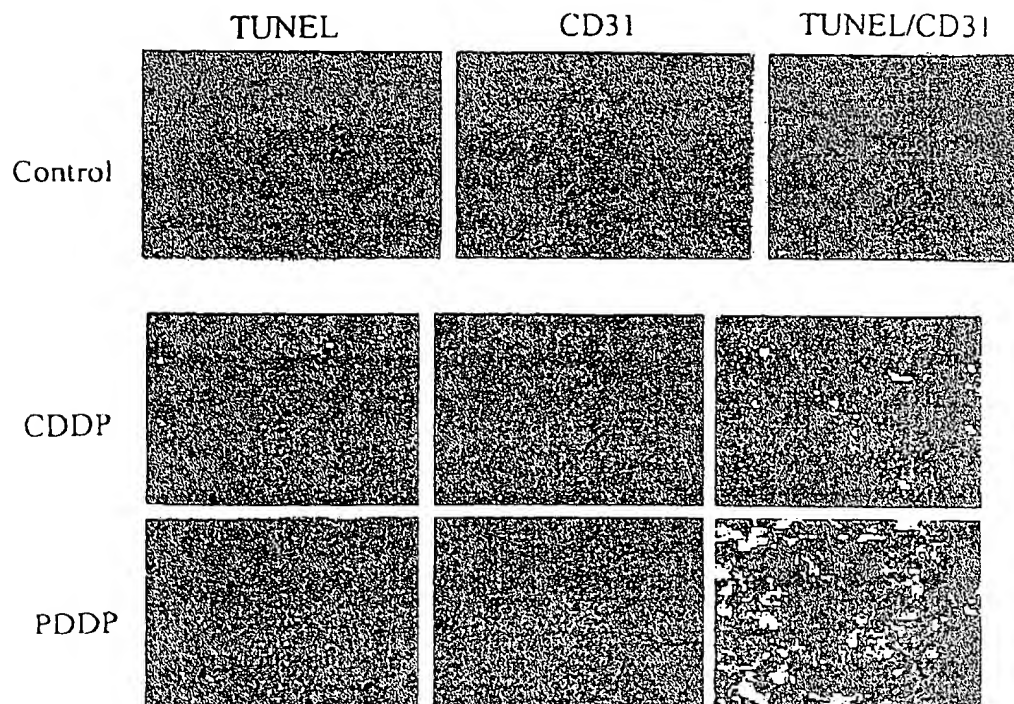
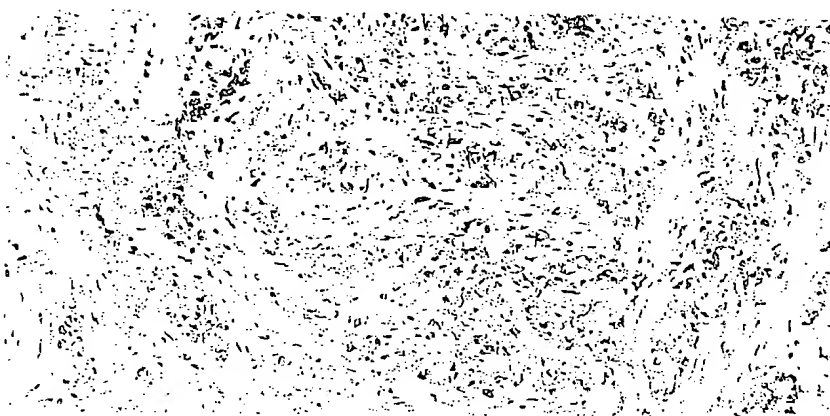


Figure 6

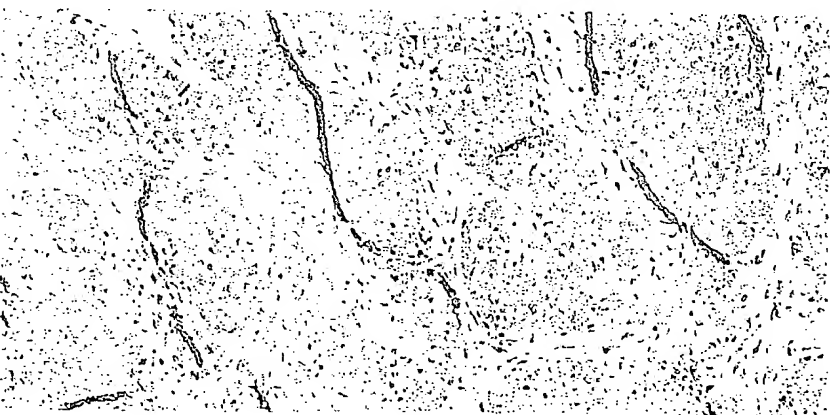
The specific cellular target expression changes at 48 hours post treatment of poly(glutamate/aspartate) acid-1,2-DACH-Pt(II) complex (PDDP), cisplatin (CDDP) and saline (control)



Histopathological slide of the breast tumor (13762) at 48 hours post treatment of PDDP



Histopathological slide of the breast tumor (13762) at 48 hours post treatment of CDDP



Histopathological slide of the breast tumor (13762) at 48 hours post treatment of Saline

Figure 7

The histopathological changes of breast tumors (13762) at 48 hours post treatment of poly(glutamate/aspartate) acid-1,2-DACH-Pt(II) complex (PDDP), cisplatin (CDDP) and Saline

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